



Sun Storage J4200/J4400 Array Release Notes

Release 1.0

Sun Microsystems, Inc.
www.sun.com

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Sun Storage J4200/J4400 Arrays

Release Notes, Release 1.0

This document contains product-release information for the Sun Storage J4200/J4400 Arrays, and also contains information unavailable at the time the product documentation was published.

The following sections describe release-specific issues and requirements that may affect the installation and operation of the Sun Storage J4200/J4400 Array firmware and related hardware:

- [“Sun Storage J4200/J4400 Arrays Features” on page 2](#)
- [“Release Documentation” on page 4](#)
- [“System Requirements” on page 5](#)
- [“Full Management Software” on page 8](#)
- [“Firmware” on page 9](#)
- [“Known Hardware and Firmware Issues” on page 14](#)
- [“Service Contact Information” on page 16](#)

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Sun Storage J4200/J4400 Arrays

Description

The Sun Storage J4200 and the Sun Storage J4400 are general-purpose, high-availability, cost-effective, disk-tray systems.

- Sun Storage J4200 is a 2-RU, 12-disk, SCSI enclosure services (SES), system, scalable to 48 hard drives, with four interconnected J4200 arrays.
- Sun Storage J4400 is a 4-RU, 24-disk, SES disk-tray system, scalable to 96 hard drives, with four interconnected J4400 arrays.

Sun Storage J4200/J4400 Arrays Features

Both Sun Storage J4200/J4400 Array systems feature:

- Six SAS ports—three, 3-GB SAS ports on each module.
- Operating environment/operating system (OE/OS) support for:
 - Solaris™
 - Red Hat™
 - SUSE™
 - VMware® (3.02 Windows 2008 data host only, no management available)
 - Windows®
- Support for serial-attached SCSI (SAS) and serial advanced-technology attachment (SATA) hard drives
- Sun Storage PCI-E SAS, 8-Port, RoHS-6-compliant, host bus adapter (HBA), version B3 or later
- Sun StorageTek Common Array Manager (CAM) 6.1.2 or later software
- Rack mountable in any 19-inch-wide, 4-post, EIA-compatible rack or cabinet with a front-to-back depth between vertical cabinet rails of 61 cm to 91 cm (24 in. to 36 in.)

Features Not Supported in This Release

Several planned features are unavailable for this release of the Sun Storage J4200/J4400 Array arrays, including:

- Dual SIM support

- System identification button
- Multipath support
- VMware (3.02 Windows 2008 data host only, no management available)
- Sun Storage PCI-E SAS, 8-Port, RoHS-6-compliant, HBA version B1; supports version B3 or later
- Sun Storage PCI-E SAS RAID, 8-port-external RoHS-6-compliant HBA
- Adaptec Storage Manager (ASM)

J4200 Shipping Kit Contents

The Sun Storage J4200 Array shipping kit contains the following:

- *Important Safety Information for Sun Hardware Systems* (816-7190-11)
- *Accessing Documentation Rev. A* (819-5467-12)
- *Sun Storage J4200 Setup and Installation Poster* (820-3221-nn)
- *Sun Storage J4200/J4400 Hardware Installation Guide* (820-3218-nn)
- One, one-half, meter mini-SAS cable per SIM board ordered

Note – Localized versions of the *Sun Storage J4200/J4400 Hardware Installation Guide* are not included in the shipping kit; they are available from **Sun Downloads** only at <http://docs.sun.com/source/820-3218-11>.

J4400 Shipping Kit Contents

The Sun Storage J4400 Array shipping kit contains the following:

- *Important Safety Information for Sun Hardware Systems* (816-7190-11)
- *Accessing Documentation Rev. A* (819-5467-12)
- *Sun Storage J4400 Setup and Installation Poster* (820-4691-nn)
- *Sun Storage J4200/J4400 Hardware Installation Guide* (820-3218-nn)
- One, 0.50-meter, mini-SAS cable per SIM board ordered

Note – Localized versions of the *Sun Storage J4200/J4400 Hardware Installation Guide* are not included in the shipping kit; they are available from **Sun Downloads** only at <http://docs.sun.com/source/820-3218-11>.

Release Documentation

Obtain release documents related to the Sun Storage J4200/J4400 Arrays listed in [TABLE 1](#) from the Sun Documentation Center at <http://www.sun.com/documentation>.

Note – For a document number with *nn* as a version suffix, use the most current version available.

TABLE 1 Release Documentation for the Sun Storage J4200/J4400 Arrays

Application	Title	Part Number
Regulatory and safety information	Sun StorageTek Regulatory and Safety Compliance Manual	96272, RevA
Multi-language safety information	Important Safety Information for Sun Hardware Systems	816-7190- <i>nn</i>
Site planning information	Sun Storage J4200/J4400 Array Site Preparation Guide	820-3219- <i>nn</i>
Installation at a glance	Sun Storage J4200 Array Setup Poster	820-3221- <i>nn</i>
Installation at a glance	Sun Storage J4400 Array Setup Poster	820-4691- <i>nn</i>
Complete details of the hardware components, rail and tray installation, and cabling.	Sun Storage J4200/J4400 Array Hardware Installation Guide	820-3218- <i>nn</i>
Late-breaking information not included in the information set	Sun Storage J4200/J4400 Array Release Notes	820-3222- <i>nn</i>
Installation and use of the management software using a GUI	Sun StorageTek Common Array Manager User Guide for the J4000 Array Family	820-3765- <i>nn</i>
Installation and use of the management software using a CLI	Sun StorageTek Common Array Manager CLI Guide for the J4000 Array Family	820-4419- <i>nn</i>
Release notes for the Common Array Manager	Sun StorageTek Common Array Manager 6.1.1 Release Notes	820-4996- <i>nn</i>
General operation and troubleshooting	Sun Storage J4200/J4400 Array System Overview	820-3223- <i>nn</i>
Disk drive replacement procedures	Sun Storage J4200/J4400 Array Disk Drive Replacement Guide	820-3225- <i>nn</i>
SIM board replacement procedures	Sun Storage J4200 Array SIM Board Replacement Guide	820-3226- <i>nn</i>

TABLE 1 Release Documentation for the Sun Storage J4200/J4400 Arrays

Application	Title	Part Number
SIM board replacement procedures	Sun Storage J4400 Array SIM Board Replacement Guide	820-4600- <i>nn</i>
Power supply replacement procedures	Sun Storage J4200 Array Power Supply Replacement Guide	820-3227- <i>nn</i>
Fan replacement procedures	Sun Storage J4200 Array Fan Replacement Guide	820-3229- <i>nn</i>
Power supply and fan replacement procedures	Sun Storage J4400 Array Power Supply/Fan Replacement Guide	820-3228- <i>nn</i>
Chassis replacement procedures	Sun Storage J4200 Chassis Replacement Guide	820-4413- <i>nn</i>
Chassis replacement procedures	Sun Storage J4400 Chassis Replacement Guide	820-4601- <i>nn</i>
Rail kit installation procedures	Sun Storage J4200/J4400 Array Rail Kit Installation Guide	820-3764- <i>nn</i>

System Requirements

The following sections describe the software and hardware products tested and qualified to work with the Sun Storage J4200/J4400 Arrays:

- [“Data Host Requirements” on page 5](#)
- [“Supported Sun Storage J4200/J4400 Arrays Servers and Workstations” on page 6](#)
- [“Supported Sun Storage J4200/J4400 Arrays HBAs” on page 7](#)

Data Host Requirements

This section describes the data-host requirements of the Sun Storage J4200/J4400 Arrays at the time this document was produced. These requirements are subject to change.

Note – Solaris support requires Solaris 10, U5 *and* the (April 1) recommended patch cluster or later. For complete, up-to-date, compatibility requirements, contact a Sun sales or support representative.

Supported Sun Storage J4200/J4400 Arrays Data Host OE/OS

[TABLE 2](#) lists the host OE and OS supported in this release of the Sun Storage J4200/J4400 Arrays.

TABLE 2

OE/OS	Driver
Solaris 10, U4, x86	mpt 1.70 (125082-16)
Solaris 10, U4, SPARC	mpt 1.70 (125081-16)
Windows 2003, 64 bit	1.25.10
RHEL 4, U6, 32 bit	3.12.19.00
RHEL 4, U6, 64 bit	
RHEL 5, U1, 32 bit	4.00.13.06
RHEL 5, U1, 64 bit	
SUSE 10, SP2, 32/64 bit	4.00.13.06
VMware 3.02	Windows 2008 data host only, no management available

Supported Sun Storage J4200/J4400 Arrays Servers and Workstations

[TABLE 3](#) lists the servers and workstations supported in this release of the Sun Storage J4200/J4400 Arrays.

TABLE 3 Supported Sun Storage J4200/J4400 Arrays Servers and Workstations

x64 Servers	SPARC Servers
X2100 M2, X2200 M2	M4000
X4100 M2, X4200 M2	M5000
X4150, X4450	M9000
X4600, X4600 M2	T1000
	T2000
	T5120, T5220
	T5140, T5240

TABLE 3 Supported Sun Storage J4200/J4400 Arrays Servers and Workstations

x64 Servers	SPARC Servers
	U45
	V215
	V245
	V445

Supported Sun Storage J4200/J4400 Arrays HBAs

[TABLE 4](#) lists the HBAs supported in this release of the Sun Storage J4200/J4400 Arrays.

TABLE 4 Supported Sun Storage J4200/J4400 Arrays HBAs

SG-XPCIE8SAS-E-Z:	The HBAs must have a Sun manufacturing part number of 375-3487-02 or higher—that is, 375-3487-03 is supported, while 375-3487-01 is not.
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Sun Part Numbers

The Sun manufacturing part number, located on the label adjacent to the SIM-board SAS connector, corresponds to the part number on the box in one of two ways:

- **594-4098-02:** X-Option
- **F375-3487-02:** Customer-replaceable unit (CRU)

Ordering HBAs

HBAs must be ordered separately from Sun, or from the HBA manufacturer, by one of the following methods:

- Order Sun HBAs from Sun Storage at http://www.sun.com/storagetek/storage_networking/hba.
- Download HBA drivers and other host software from the Sun Download Center at <http://www.sun.com/software/download>.
- Download OE/OS updates from the vendor Web site for the specific environment.

Full Management Software

The full Sun StorageTek CAM software suite, installed on the management host, communicates with the arrays through a remote proxy. This section describes the management software, including:

- “CAM Software Capabilities” on page 8
- “CAM Software Documentation” on page 8
- “Remote Proxy” on page 8
- “Firmware” on page 9
- “Managing Sun Storage J4200/J4400 Arrays from a Browser Interface” on page 12
- “Managing Sun Storage J4200/J4400 Arrays from a CLI” on page 13

CAM Software Capabilities

Sun StorageTek CAM software suite capabilities include:

- Monitoring
- Service
- Web-browser interface
- Command-line interface (CLI)

CAM Software Documentation

For details about how to install, configure, and use CAM software, search for one of the following documents at <http://www.sun.com/documentation>:

- *Sun StorageTek Common Array Manager User Guide for the J4000 Array Family*
- *Sun StorageTek Common Array Manager CLI Guide for the J4000 Array Family*
- *Sun StorageTek Common Array Manager 6.1.1 Release Notes*

Remote Proxy

The remote proxy agent enables a remote host to manage an array connected directly to another system through an IP network.

Managing Sun Storage J4200/J4400 Arrays with the Remote Proxy

For detailed information about how to manage Sun Storage J4200/J4400 Arrays with the remote proxy, see Remote Management of Arrays at

http://docs.sun.com/source/820-3765-10/chapter1.html#50577426_59931

Note – With the remote proxy enabled, the full CAM installation allows remote management of the Sun Storage J4200/J4400 Arrays.

Firmware

This section describes Sun Storage J4200/J4400 Arrays release-specific steps for installation of array firmware and upgrades, including:

- “Sun Storage J4200/J4400 Arrays Firmware Best Practices” on page 9
- “Obtaining Software and Firmware from a Browser Interface” on page 10
- “Sun Storage J4200/J4400 Arrays Firmware Best Practices” on page 9
- “Obtaining Software and Firmware from a Browser Interface” on page 10
- “Installing Firmware” on page 11
- “Upgrading Firmware” on page 11
- “Managing Sun Storage J4200/J4400 Arrays from a Browser Interface” on page 12
- “Managing Sun Storage J4200/J4400 Arrays from a CLI” on page 13
- “Sun Storage J4200 Array Known Issues” on page 14
- “Sun Storage J4400 Array Known Issues” on page 14
- “Sun Storage J4200/J4400 Arrays Shared Known Issues” on page 15

Sun Storage J4200/J4400 Arrays Firmware Best Practices

For Sun Storage J4200/J4400 Array best practices follow CSM200 Best Practices at <http://www.sun.com/software/download>.

Note – For optimal performance, Sun Microsystems recommends that the firmware on all arrays match the current firmware baseline. New features are not supported with non-baseline firmware. For the latest system patches, troubleshooting advice, and best practices, link to SunSolve at <http://www.sunsolve.sun.com>.

Obtaining Software and Firmware from a Browser Interface

When you install the software the first time from a browser interface, a registration page displays. Complete the registration-information requests before continuing.

▼ To obtain the latest software and firmware from a browser interface:

1. Navigate to the Sun Download Center at <http://www.sun.com/download>.
2. Select **View by Category**.
3. Navigate to **Systems Administration > Storage Management**.
4. Locate and select “StorageTek Common Array Manager Software 6.1.2 Revenue Release” in the **Storage Management** column.

Note – If you have not already done so, register for an account before proceeding.

5. Log in to your account.
6. When the registration page returns you to the Download Center:
 - Select the **Platform and Language** for your download.
 - Accept the license agreement.
 - Type your user name.
 - Type your password.
7. Click **Login and Continue**.

The “**Download StorageTek Common Array Manager Software 6.1.2 Revenue Release**” version type, selected in step 3, opens with **Required Files** options *unselected* by default.

8. Select the file option **Description and Name** for the downloads you want.

9. Click **Download Selected with Sun Download Manager**.
10. Open the file or save it as you would any typical download.

Installing Firmware

New arrays come with the firmware installed. As updates to the firmware are released, you must follow specific steps to install new firmware.

- **For complete instructions about installing firmware, follow the procedures at Installing New Firmware at**

<http://www.sun.com/software/download>.

Note – For other arrays managed by the Sun StorageTek Common Array Manager, firmware, this release may require special firmware instructions. Refer to the *Sun StorageTek Common Array Manager 6.1.1 Release Notes*, or later, for the latest firmware information and a list of firmware files for your array.

Upgrading Firmware

The Install Firmware Baseline function is available as a separate feature in the Sun StorageTek CAM software. The software prompts you when the array's firmware needs to be upgraded. It is not necessary to *uninstall* the existing firmware before following this procedure.

As part of the baseline installation of the Sun Storage J4200/J4400 Arrays software, the script puts the array firmware files in a directory on the management host, with these conditions:

- When you upgrade the firmware, the software analyzes the firmware installed on the array. If the baseline firmware on the host is newer, and you choose to install, the software installs the baseline firmware on the array.
- If a previous release of the Sun Storage J4200/J4400 Arrays firmware is installed, the firmware upgrade software detects it and provides a method to upgrade to the new firmware versions required for this release.

Note – For the latest system patches, troubleshooting advice, and best practices, link to SunSolve at <http://www.sunsolve.sun.com>.

Array Firmware Installation and Upgrade Documents

For detailed firmware-installation procedures, or for details about host-management upgrades, see Installing Packages and Patches at

http://docs.sun.com/source/820-4191-10/CAM6.1RelNotes.html#50524165_58021

Upgrading Firmware on the Array from CAM

▼ To upgrade firmware on the array from the CAM interface:

- Follow the procedures at Installing the Firmware Baseline: Upgrading Array Firmware at

http://docs.sun.com/source/820-4191-10/CAM6.1RelNotes.html#50524165_54374.

Upgrading Firmware for Additional Expansion Trays

▼ To upgrade firmware for additional expansion trays:

- Follow the procedures at Upgrading Firmware for Additional Expansion Trays at

<http://www.sun.com/software/download>

Note – For information about supported expansion modules, see Supported Expansion Models at <http://www.sun.com/software/download>

Managing Sun Storage J4200/J4400 Arrays from a Browser Interface

For a list of supported Web browsers and best practices for browser performance, see Supported Web Browsers at <http://www.sun.com/software/download>

Note – For general information about how to use the browser interface, refer to the Overview of Management Software in the *Sun StorageTek™ Common Array Manager User Guide for the J4000 Array Family*

▼ To use a browser interface to manage the Sun Storage J4200/J4400 Arrays:

- Follow the procedure at Navigating the Common Array Manager Interface at <http://www.sun.com/software/download>.

Caution – The remote proxy *must be* enabled while running the installation wizard or script. The remote proxy *should not be* enabled for arrays directly connected to the host where CAM is installed.

Managing Sun Storage J4200/J4400 Arrays from a CLI

The CLI provides the same control and monitoring capability as the Web browser; it is scriptable for frequently performed tasks.

▼ To use a CLI to manage the Sun Storage J4200/J4400 Arrays:

- Open one of the following for detailed information and instructions about the Sun StorageTek CAM CLI:
 - *Sun StorageTek Common Array Manager CLI Guide for the J4000 Array Family*
 - `sscs` man page

Known Hardware and Firmware Issues

This section describes known general issues related to the Sun Storage J4200/J4400 Arrays hardware and firmware and describes additional known issues *shared* by both arrays. It provides information about known issues and bugs filed against this product release. If a recommended workaround is available for a bug, it follows the description.

Note – For detailed information about CAM software and firmware known issues, see the *Sun StorageTek Common Array Manager 6.1.2 Release Notes*

Sun Storage J4200 Array Known Issues

The following known issues apply to the Sun Storage J4200 array:

Removing and reinserting a J4200 SIM 1 board

Bug 6658415—Removing and reinserting a J4200 SIM 1 board that is not connected to a data host, while using Solaris and vdbench, can diminish subsequent input/output throughput.

Workaround—Avoid removing and reinserting a J4200 SIM 1 board while using vdbench.

Bringing the temperature of a Sun Storage J4200 to 60-deg. C does not cause alert

Bug 6660702—Bringing the temperature of a Sun Storage J4200 to 60-deg. C does not cause alert.

Workaround—Alarm will be audible; however, system LED will not change to amber. Check system LED if temperature is above normal.

Sun Storage J4400 Array Known Issues

The following known issues apply to the Sun Storage J4400 array.

Top of SIM board is not covered.

Bug 6685882—The SIM board top is not covered, and thus components are exposed where you might otherwise reach.

Workaround—Be careful when handling the SIM board so that it is not damaged.

Power Supply's Goldfinger connectors are exposed.

Bug 6685896—The power supply's goldfinger connectors extend beyond the back of the power supply module and are unprotected from damage.

Workaround—Be careful not to damage the goldfinger connectors during handling and replacement.

Sun Storage J4200/J4400 Arrays Shared Known Issues

The Sun Storage J4200 and the Sun Storage J4400 Arrays share the following known issues:

Service Management Port Reserved

Bug 6679828—The SIM board Service Management port is reserved for Sun authorized service personnel only.

Dual SIMs Not Supported in This Release

Sun Storage J4200/J4400 Array Single SIM Support—Either, or both, SIMs may be ordered and installed in the J4200/J4400 array at the same time; however, single SIM support only is available for this product release.

Windows 2003 Hotfix Patch Required

CAM Windows installation requires the Microsoft Windows 2003 SP2 Hotfix. CAM registration will not work until this fix is applied.

Workaround—Obtain the patch from Microsoft Help and Support at <http://support.microsoft.com/kb/943545/en-us>

ZFS Panic

Bug 6322646—ZFS should be able to handle all device failures (when writing) gracefully. When in a ZFS configuration, a disk or cable failure while writing I/O causes a ZFS panic. A fix has been put in place and will be available in a subsequent Solaris 10 patch release.

Two-minute Delay for Link Active

Bug 6712901—Upon initial system power on or SIM reset (post FW upgrade), there is a one-minute delay until “Link Up” is active. This is visible via the green LED on the SIM.

Workaround— This is the workaround for cascade issues discovered during testing.

Service Contact Information

For help installing or using this product, contact Sun Support and Services at the following location:

<http://www.sun.com/service/contacting>.